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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/508,790	09/24/2004	Henry Franke	32860-000782/US	9854		
30596 75	590 11/29/2006		EXAM	EXAMINER		
HARNESS, D P.O.BOX 8910	DICKEY & PIERCE,	LEJA, RONALD W				
RESTON, VA 20195			ART UNIT	PAPER NUMBER		
,			2836			
·			DATE MAILED: 11/29/2006	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

, ,			- N)			
		Application No.	Applicant(s)	_			
Office Assistant		10/508,790	HENRY FRANKE ET AL				
Office Action	Summary	Examiner	Art Unit				
	_	Ronald W. Leja	2836				
The MAILING DATE Period for Reply	of this communication app	pears on the cover sheet with the c	orrespondence address	••			
WHICHEVER IS LONGER - Extensions of time may be availabled after SIX (6) MONTHS from the may lift NO period for reply is specified and a Failure to reply within the set or extensions.	e under the provisions of 37 CFR 1.1 illing date of this communication bove, the maximum statutory period v ended period for reply will, by statute er than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH(ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE g date of this communication, even if timely filed	N. nety filed the mailing date of this communic D (35 U.S.C. § 133).				
Status							
1)⊠ Responsive to comm	nunication(s) filed on 20 N	ovember 2006					
2a) ☐ This action is FINAL		action is non-final.					
3) Since this application	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
		x parte Quayle, 1935 C.D. 11, 45					
Disposition of Claims							
4)⊠ Claim(s) <u>1-17</u> is/are	pending in the application.						
	m(s) is/are withdrav			•			
5) Claim(s) is/ar							
6)⊠ Claim(s) <u>1-17</u> is/are	6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/ar	7) Claim(s) is/are objected to.						
8) Claim(s) are s	subject to restriction and/o	r election requirement.					
Application Papers							
9) ☐ The specification is o	biected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>24 September 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
		drawing(s) be held in abeyance. See	•				
Replacement drawing	sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.12	21(d).			
11) The oath or declaration	on is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152	2.			
Priority under 35 U.S.C. § 11	9						
12)⊠ Acknowledgment is n a)⊠ All b)⊡ Some *		priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copie	s of the priority documents	s have been received.					
	2. Certified copies of the priority documents have been received in Application No						
		rity documents have been receive	d in this National Stage				
	m the International Bureau	• • • • • • • • • • • • • • • • • • • •					
" See the attached deta	iled Office action for a list	of the certified copies not receive	d.				
Attachment(s)							
1) Notice of References Cited (PT	O-892)	4) Interview Summary	(PTO_413)				
2) D Notice of Draftsperson's Patent	Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
 Information Disclosure Stateme Paper No(s)/Mail Date <u>9/24/200</u> 		5) Notice of Informal P 6) Other:	atent Application				

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 9, 10 and 17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Demeyer et al. (4,380,785).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-8 and 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Demeyer et al..

Claims 3, 5, 11 and 13 are drawn to a capacitor and/or means that is chargeable by turning off the semiconductor switch for a short period of time so as to

provide control current to keep the semiconductor switch maintained on. Figure 2 of the Reference discloses the use of a capacitor being connected in series with a transistor (54) and the base connection of the semiconductor switch (56), but is somewhat silent with respect to its operation. An auxiliary control device (90) is disclosed as preventing inadvertent tripping upon application of initial power.

Therefore, it is the opinion of the Examiner that it would have been obvious to ensure series capacitor of Figure 2 gets charged as needed to help ensure the semiconductor switch (56) is maintained on, thereby leading to a more reliable trip circuit. Claims 4, 6-8, 12 and 14-16 appear to limit the tripping in response to a "short-circuit" only. Demeyer et al. disclose tripping for a short-circuited condition as well as for other types of fault conditions (i.e. ground fault). However, it would have been obvious to limit the tripping to a short-circuit condition only, dismissing the decreased level of

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald W. Leja whose telephone number is (571)272-2053. The examiner can normally be reached on Monday thru Friday.

protection being offered to a load, as a means to offer a more compact and cheaper

(due to less components needed) protection design to particular applications. Short-

circuit protection also offers protection to the power source.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/508,790

Art Unit: 2836

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Romaid W Leja Primary Examiner Art Unit 2836 Page 4

rwl

November 27, 2006